BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Comprehensive development of Hegdenagar East side cross roads and Shabarinagar Cross Roads in Ward No 6

Est Cost: =199.00Lakhs

Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
Removing and resetting of footpath slab								
RK Hegdenagar	Sqm							
RK Hegdenagar 1st Main RHS		1	321.00	1.20		385.20		
8th Cross		2	80.00	0.90		144.00		
3rd Cross RHS		1	102.00	0.90		91.80		
Culvert Slabs		10	7.70	1.80		138.60		
Consider 30% Damaged Slabs						-186.30		
Consider 30% Damaged Slabs						-41.58		
						531.72	208.82	**111033.77**
Pg No 270 It No 37.56 of PWD SR 2018-19								
Basic rate	*197.00*							
Area Weightage 6%	*11.82*							
Final Rate	*208.82*							
Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar								
RK Hegdenagar	Cum							
RK Hegdenagar 1st Main RHS		2	287.00	0.20	0.80	91.84		
Shabarinagar 1st Main LHS		2	229.50	0.20	0.80	73.44		
3rd Cross RHS		2	102.00	0.20	0.90	36.72		
						202.00	372.06	**75156.12**
Pg No 139 It No 18.23 of PWD SR 2018-19								
Basic rate	*351.00*							
Area Weightage 6%	*21.06*							
Final Rate	*372.06*							
Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar								
RK Hegdenagar	Cum							
Culverts		26	7.70	0.60	0.45	54.05		
						54.05	372.06	**20111.33**
Pg No 140 It No 18.27 of PWD SR 2018-19								
Basic rate	*351.00*							
Area Weightage 6%	*21.06*							
Final Rate	*372.06*							
Removing and resetting of kerb stones								
RK Hegdenagar	m							
RK Hegdenagar 1st Main RHS		1	321.00			321.00		
Consider 50% Damaged kerbs						-160.50		
						160.50	104.94	**16842.87**
Pg No 270 It No 37.57 of PWD SR 2018-19								
Basic rate	*99.00*							
Area Weightage 6%	*5.94*							
Final Rate	*104.94*							

Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
			m	m	m			
RB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal ow upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / pter 3								
ilt	Cum							
Hegdenagar								
Hegdenagar 1st Main RHS		1	321.00	0.50	0.60	96.30		
barinagar 1st Main LHS		1	229.50	0.50	0.60	68.85		
		1	229.50	0.60	0.40	55.08		
Cross RHS		1	102.00	0.50	0.60	30.60		
Hegdenagar Cross Roads								
Cross		2	75.00	0.50	0.60	45.00		
Cross		2	85.00	0.50	0.60	51.00		
Cross		2	64.00	0.50	0.60	38.40		
Cross		2	70.00	0.50	0.60	42.00		
Cross		2	70.00	0.50	0.60	42.00		
Cross		2	75.00	0.50	0.60	45.00		
Cross		2	77.00	0.50	0.60	46.20		
Cross		2	80.00	0.50	0.60	48.00		
Cross		1	150.00	0.50	0.60	45.00		
ert		13	7.70	0.50	0.60	30.03		
Drain								
Hegdenagar 1st Main RHS		1	321.00	1.10	0.70	247.17		
barinagar 1st Main LHS		1	229.50	1.10	0.70	176.72		
Cross RHS		1	102.00	1.10	0.70	78.54		
Hegdenagar Cross Roads								
Cross		2	75.00	1.10	0.35	57.75		
Cross		2	85.00	1.10	0.35	65.45		
Cross		2	64.00	1.10	0.35	49.28		
Cross		2	70.00	1.10	0.35	53.90		
Cross		2	70.00	1.10	0.35	53.90		
Cross		2	75.00	1.10	0.35	57.75		
Cross		2	77.00	1.10	0.35	59.29		
Cross		1	150.00	1.10	0.35	57.75		
ert		13	7.70	1.30	1.00	130.13		
						1771.09	137.80	**244055.51**
No 143 It No 19.1 of PWD SR 2018-19								
ic rate	***130.00***							
a Weightage 6%	***7.80***							
al Rate	***137.80***							
RB M2100-10: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.89 cum and fine regates @ 0.46 cum, in foundation mechanically mixed, placed in foundation and compacted by ation including curing for 14 days including cost of all materials, labour, HOM of machinery, curing, nworks, scaffolding and centering complete as per specifications								
Hegdenagar	Cum							
Hegdenagar 1st Main RHS		1	321.00	1.10	0.10	35.31		
barinagar 1st Main LHS		1	229.50	1.10	0.10	25.25		
Cross RHS		1	102.00	1.10	0.10	11.22		
Hegdenagar Cross Roads								
Cross		2	75.00	1.10	0.10	16.50		
Cross		2	85.00	1.10	0.10	18.70		
Cross		2	64.00	1.10	0.10	14.08		
Cross		2	70.00	1.10	0.10	15.40		
Cross		2	70.00	1.10	0.10	15.40		
Cross		2	75.00	1.10	0.10	16.50		
Cross		2	77.00	1.10	0.10	16.94		
Cross		1	150.00	1.10	0.10	16.50		
Concrete for Kerb								

Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
			m	m	m			
egdenagar 1st Main RHS		1	321.00	0.20	0.10	6.42		
arinagar 1st Main LHS		1	229.50	0.20	0.10	4.59		
Cross RHS		1	102.00	0.20	0.10	2.04		
ert		13	7.70	1.30	0.15	19.52		
ening Portion		1	321.00	0.60	0.10	19.26		
oach Ramp for Culvert		26	7.70	0.50	0.10	10.01		
						263.63	5421.90	**1429399.90**
o 222 It No 27.18 of PWD SR 2018-19								
c rate	*5115.00*							
Weightage 6%	*306.90*							
Rate	*5421.90*							
iding laying palin / reinforced cement concrete for side drains using M20 nominal mix concrete with at 300kgs with 20mm and downsize granite metal coarse aggregates at 0.69 cum and fine egates at 0.43 cum machine mixed, well compacted for walls and bottom including centering tering cost of materials, HOM of machinery, curing etc., complet excluding cost of steel as per TH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per ifications **wall & bottom thickness 15cm**								
erts	**Cum**							
om Raft								
egdenagar 1st Main RHS		1	321.00	0.90	0.15	43.34		
arinagar 1st Main LHS		1	229.50	0.90	0.15	30.98		
Cross RHS		1	102.00	0.90	0.15	13.77		
egdenagar Cross Roads								
ross		2	75.00	0.90	0.15	20.25		
Cross		2	85.00	0.90	0.15	22.95		
Cross		2	64.00	0.90	0.15	17.28		
Cross		2	70.00	0.90	0.15	18.90		
Cross		2	70.00	0.90	0.15	18.90		
Cross		2	75.00	0.90	0.15	20.25		
Cross		2	77.00	0.90	0.15	20.79		
Cross		1	150.00	0.90	0.15	20.25		
s								
egdenagar 1st Main RHS		2	321.00	0.15	1.50	144.45		
arinagar 1st Main LHS		2	229.50	0.15	1.50	103.28		
Cross RHS		2	102.00	0.15	1.50	45.90		
egdenagar Cross Roads								
ross		4	75.00	0.15	0.75	33.75		
Cross		4	85.00	0.15	0.75	38.25		
Cross		4	64.00	0.15	0.75	28.80		
Cross		4	70.00	0.15	0.75	31.50		
Cross		4	70.00	0.15	0.75	31.50		
Cross		4	75.00	0.15	0.75	33.75		
Cross		4	77.00	0.15	0.75	34.65		
Cross		2	150.00	0.15	0.75	33.75		
						807.23	7070.20	**5707295.22**
o 271 It No 37.59.2 of PWD SR 2018-19								
c rate	*6670.00*							
Weightage 6%	*400.20*							
Rate	*7070.20*							
ding and laying in position plain/reainforced cement concrete M20 for sub structure/ rstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse egate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with superplasticisers @ 3ltrs rming to IS 9103-2008, concrete laid in layers, well compacted and providing weep holes wherever ssary with necessary scaffoldingf, formwork etc., including cost of labour, HOM curing etc., plete								
om Raft	**Cum**							
ert		13	7.70	1.10	0.25	27.53		
s								
ert		26	7.70	0.25	1.40	70.07		
						97.60	5277.74	515094.23
o 257 It No 34.17 of PWD SR 2018-19								

Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
Basic rate	4979.00							
Area Weightage 6%	298.74							
Final Rate	5277.74							
KSRRB M2200-6. Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH specification No 1600 & 2200								
	Tonne							
Consider 60Kgs/cum for item No. only RCC Drain Qty			807.23	0.060	--	48.44		
Consider 90 Kgs/cum for item No. only RCC Culvert Qty			97.60	0.090	--	8.79		
						57.23	72326.98	4139273.07
Pg No 229 It No 28.8.2 of PWD SR 2018-19								
Basic rate	68233.00							
Area Weightage 6%	4093.98							
Final Rate	72326.98							
Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.								
BK Hegdenagar Cross Roads	Sqm							
Bhabarinagar 1st Main LHS		1	229.50	0.90	--	206.55		
Bhabarinagar 1st Main RHS		1	229.50	0.90	--	206.55		
1st Cross		2	75.00	0.90	--	135.00		
2nd Cross		2	85.00	0.90	--	153.00		
3rd Cross		2	64.00	0.90	--	115.20		
4th Cross		2	70.00	0.90	--	126.00		
5th Cross		2	70.00	0.90	--	126.00		
7th Cross		2	75.00	0.90	--	135.00		
8th Cross		2	77.00	0.90	--	138.60		
Consider 30% Damaged Slabs		1	150.00	0.90	--	135.00		
						186.30		
Data Rate	2285.00					1663.20	2285.00	3800412.00
Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.								
BK Hegdenagar Cross Roads	Sqm							
Culverts		3	7.70	1.20	--	27.72		
Consider 30% Damaged Slabs						41.58		
Data Rate	5366.00					27.72	5366.00	148745.52
Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.								
Hegdenagar	quintol							
Railings		90	0.30	0.30	--	8.10		
21kgs/sqm		21	8.10			170.10		
						1.70	7618.22	12950.97
Pg No 150 It No 19.97 of PWD SR 2018-19								
Basic rate	7187.00							
Area Weightage 6%	431.22							
Final Rate	7618.22							

Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
RRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / nd /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, mping, turning for return trip, excluding time for haulage and return trip including with all lead and s, loading and unloading,tools, plants, HOM of machinery, cost of materials, labour and other idental charges etc., complete as per specification and as per the direction by Engineer in charge of e work.MORTH Chapter 1								
Hegdenagar	Cum							
me as Earth work Qnty						1771.09		
						1771.09	82.60	146291.62
No 136 It No 17.1 & 17.4 of PWD SR 2018-19								
ading and unloading with 10km	*82.60*							
d= 57+2x1.28x10 = 82.60								
al Rate	*82.60*							
							Total Construction Cost	17531237.630
							12%GST for Works	2103749.00
							Sub Total	19634986.63
							Add 1.5% for DPR preparation, PMS and Quality Control Charges	262968.56
							Sub Total	19897955.190
							Miscellaneous and rounding off	2044.81
							Total	19900000.00

cate.

e workspot was inspected and work is found to be necessary.

e area comes within the Bruhat Bangalore Mahanagara Palike limits.

e rates adopted based on the PWD SR, Bangalore circle for year 2018-19 and Issue Rates as on 01-01-2019.

e provisions made in the estimate are necessary and essential.

e work proposed is not tackled in any of the programme of work in last Three years

Infra Technocrats Consultants

nt Engineer

Assistant Executive Engineer

Executive Engineer 23/2/19

Approved by Major works committee
vide subject No: 24/2019-20 Dt: 07/02/2020

Administrative Approval
Accorded For Rs. 199.00 lakhs
Head of A/C P-0190
CER NO : 4/2 Dt: 25/02/2020
E.E. (Project) 25/2

Technical Sanction
ACCORDED FOR RS 199.00 lakhs only
Head of A/C P0190
CER NO. 172 DT: 26.11.2019

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CE (YNK).